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REMARKS

By the above amendments, claims 1-6 and 10 have been amended without prejudice. New claims 11-14 have been added, and no new matter has been entered.

Nonstatutory Double Patenting Rejections

Claim 10 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 10 of copending Application No. 10/805,472.

Applicant hereby obviates the provisional double patenting rejection by submitting herewith a terminal disclaimer.

Claim Rejections Under 35 U.S.C. 102

Claims 1-3, 6-7, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Takatori et al., U.S. patent No. 6,812,986.

In response to this rejection, applicant has amended independent claim 1 to patentably distinguish it from the cited reference. Applicant respectfully traverses the rejection as to claim 1 for the following reasons:

Amended claim 1 now recites "[a]n in-plane switching liquid crystal display, comprising: a first substrate comprising a first transparent sheet; a second substrate comprising in turn a second transparent sheet, an insulating layer and an alignment film with an alignment structure, and further comprising a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistors formed between the

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second transparent sheet and the insulating layer; and a liquid crystal layer interposed between the first and the second substrates."

Takatori discloses a liquid crystal display comprising a first substrate (41) having a color filter (42) and a common electrode (44), a second substrate (51) having a pixel electrode (52), an insulating film (59), and a rubbing alignment layer (53). (FIG. 23A)

The subject matter of amended claim 1 comprises common and pixel electrodes parallel to each other and an alignment film, the common and pixel electrodes and the alignment film being formed on a second substrate. In Takatori, a liquid crystal display comprises a common electrode formed on a first substrate, and a pixel electrode and a rubbing alignment layer formed on a second substrate. Moreover, in the present invention, when a voltage is applied across the electrodes, a horizontal electric field is produced between the pixel electrodes and common electrodes. The horizontal electric field is parallel to the first and the second substrates. As a result, the liquid crystal molecules are twisted in an essentially same angle by the cooperation of the horizontal electric field force and the alignment force, which leads to a high transmission ratio. Compare this with Takatori, in which the electric field generated is substantially vertical.

Therefore, applicant submits that Takatori does not teach or suggest the in-plane switching liquid crystal display comprising common and pixel electrodes parallel to each other and an alignment film, the common and pixel electrodes and the alignment film formed on a second substrate, as recited in amended claim 1. Moreover, the other references listed in the Notice of References Cited, whether considered alone or in combination with

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Takatori or each other, do not teach or suggest these features either.

Accordingly, amended claim 1 is submitted to be both novel and unobvious over Takatori, the other references listed in the Notice of References Cited, or any combination thereof. Reconsideration and withdrawal of the rejection of claim 1 are respectfully requested.

Claims 2 and 3 both depend directly from claim 1. Therefore reconsideration and withdrawal of the rejections of claims 2 and 3 are respectfully requested.

Applicant has also amended independent claim 6 to patentably distinguish it from the cited reference. Applicant respectfully traverses the rejection as to claim 6 for the following reasons:

Amended claim 6 recites "[a] method for manufacturing an in-plane switching liquid crystal display, comprising the steps of: providing a first transparent sheet and a second transparent sheet facing to each other; attaching a color filter layer on the first transparent sheet to form a first substrate; forming a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistors on the second transparent sheet; attaching an insulating layer on the pixel and common electrodes and the thin film transistors; forming an alignment film with an alignment structure on the insulating layer to form a second substrate; assembling the first substrate and the second substrate to form a liquid crystal box; and injecting liquid crystal molecules into the liquid crystal box to form the in-plane switching liquid crystal display."

For reasons similar to those asserted above in relation to claim 1,

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amended claim 6 is submitted to be both novel and unobvious over Takatori, the other references listed in the Notice of References Cited, or any combination thereof. Reconsideration and withdrawal of the rejection of claim 6 are respectfully requested.

Claim 7 depends from claim 6. Therefore reconsideration and withdrawal of the rejection of claim 7 is respectfully requested.

Applicant has also amended independent claim 10 to patentably distinguish it from the cited reference. Applicant respectfully traverses the rejection as to claim 10 for the following reasons:

Amended claim 10 now recites "[a]n in-plane switching liquid crystal display, comprising: a first substrate comprising a first transparent sheet; a second substrate comprising in turn a second transparent sheet, an insulating layer and an alignment film, and further comprising a plurality of pixel electrodes and common electrodes parallel to each other and a plurality of thin film transistors formed between the second transparent sheet and the insulating layer, only one alignment film being applied to only one of said first substrate and said second substrate, directly facing said liquid crystal layer; and a liquid crystal layer interposed between the first and the second substrates."

For reasons similar to those asserted above in relation to claim 1, amended claim 10 is submitted to be both novel and unobvious over Takatori, the other references listed in the Notice of References Cited, or any combination thereof. Reconsideration and withdrawal of the rejection of claim 10 are respectfully requested.

Claim Rejections Under 35 U.S.C. 103

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Claims 4-5 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takatori et al., in view of Gillian et al., U.S. Patent No. 5,861,931.

Applicant respectfully traverses the rejections as to claims 4 and 5 for the following reasons:

Applicant refers to and relies upon the above remarks regarding amended claim 1 and Takatori. Applicant respectfully submits that Gillian does not provide any additional teaching to the teachings of Takatori which might lead one of ordinary skill in the art to provide the IPS LCD of claim 1. That is, Takatori in view of Gillian does not teach or suggest to one of ordinary skill in the art that he or she might or should provide the in-plane switching liquid crystal display comprising common and pixel electrodes parallel to each other and an alignment film, the common and pixel electrodes and the alignment film being formed on a second substrate.

Accordingly, amended claim 1 is submitted to be unobvious and patentable over Takatori in view of Gillian under 35 U.S.C. 103(a).

Claims 4 and 5 both depend directly from claim 1, and therefore should also be patentable. Reconsideration and withdrawal of the rejections of claims 4 and 5 are respectfully requested.

For reasons similar to those asserted above in relation to claim 1 and Takatori and Gillian, amended claim 6 is submitted to be unobvious and patentable over Takatori in view of Gillian under 35 U.S.C. 103(a).

Claims 8 and 9 both depend directly from claim 6, and therefore should

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also be patentable. Reconsideration and withdrawal of the rejections of claims 8 and 9 are respectfully requested.

In view of the foregoing, the present application as claimed in the pending claims is considered to be in a condition for allowance, and an action to such effect is earnestly solicited.

Respectfully submitted,

Cheuh-Ju Chen et al

By 

Wei Te Chung

Registration No.: 43,325

Foxconn International, Inc.

P.O. Address: 1650 Memorex Drive, Santa Clara, CA 95050

Tel. No.: (408) 919-6137